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(54) NAVIGATION SYSTEM WITH THREE-DIMENSIONAL DISPLAY

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Subject to any disclaimer, the term of this patent is extended or adjusted under 35

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(57) ABSTRACT

A navigation system for a mobile vehicle includes a vehicle position data generator for generating signals indicating location of the mobile vehicle, and scene information provider which generates information representative of the layouts of local environs at various locations and a display. A real environment scene generator, using position data acquired from the vehicle position data generator, acquires information from the local scene information provider representative of the local scene at the vehicle position indicated by the position data. The real environment scene generator generates location pertinent information which is used by the display to display a scene depicting the locality setting in a three dimensional format. The real environment scene generator also generates direction information which is used to display directions overlaid on the displayed local scene. The displayed scene and overlaid directions are constantly updated to reflect the changing locality as the position of the vehicle changes.

29 Claims, 9 Drawing Sheets

